3.6 Skills Checklist

**Candidates will need a basic mathematics set, including a calculator (and a protractor)**

**Basic Skills**

• annotation of illustrative material, base maps, sketch maps, OS maps, diagrams, graphs, sketches, photographs etc

**Investigative Skills**

• identification of aims, geographical questions and issues, and effective approaches to enquiry

• identification, selection and collection of quantitative and qualitative evidence, including the use of appropriate sampling techniques, from primary sources (including fieldwork) and secondary sources.

• processing, presentation, analysis and interpretation of evidence

• drawing conclusions and showing an awareness of the validity of conclusions

• evaluation, including further research opportunities

• risk assessment and identification of strategies for minimising health and safety risks in undertaking

fieldwork.

**Cartographic Skills**

• Ordnance Survey maps at a variety of scales

• maps with located proportional symbols –squares, circles, semi-circles, bars

• maps showing movement – flow lines, desire lines and trip lines

• choropleth, isoline and dot maps.

**Graphical Skills**

• line graphs – simple, comparative, compound and divergent

• bar graphs – simple, comparative, compound and divergent

**• scatter graphs – and use of best fit line**

• pie charts and proportional divided circles

• triangular graphs

• radial diagrams

• **logarithmic scales**

• dispersion diagrams.

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**Statistical Skills**

• measures of central tendency – mean, mode, median

• measures of dispersion – interquartile range and standard deviation

• Spearman’s rank correlation test

• application of significance level in inferential statistical results.

**ICT Skills**

• use of remotely sensed data – photographs, digital images including those captured by satellite

**• use of databases, eg census data**, Environment Agency data; meteorological office data

**• use of geographical information systems (GIS)**

• presentation of text and graphical and cartographic images using ICT.